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Acronyms and Abbreviations

AGS	Alternating Gradient Synchrotron
AHA	American Hospital Association
AMA	American Medical Association
AIRFA	<i>American Indian Religious Freedom Act</i>
ALARA	as low as reasonably achievable
AOC 29	Area of Concern 29
ARPA	<i>Archaeological Resources Protection Act</i>
ATWS	anticipated transient without scram
BAF	Booster Applications Facility
BEA	Bureau of Economic Analysis
BEIR	Biological Effects of Ionizing Radiation
BGRR	Brookhaven Graphite Research Reactor
BLIP	Brookhaven Linac Isotope Producer
BLM	Bureau of Land Management
BLS	Bureau of Labor Statistics
BMRR	Brookhaven Medical Research Reactor
BNL	Brookhaven National Laboratory
BTR	beam tube rupture
CAA	<i>Clean Air Act</i>
CAP-88 PC	Clean Air Act Assessment Package 1988
CDF	core damage frequency
CEDE	committed effective dose equivalent
CEQ	Council on Environmental Quality
CERCLA	<i>Comprehensive Environmental Response, Compensation, and Liability Act</i>
CFR	<i>Code of Federal Regulations</i>
CMS	Chemical Management System
CNF	Cold Neutron Facility
COE	U.S. Army Corps of Engineers
CWA	<i>Clean Water Act</i>
D&D	decontamination and decommissioning
DBE	design basis earthquake
DEIS	Draft Environmental Impact Statement
DOE	U.S. Department of Energy
EA	Environmental Assessment
EAL	Emergency Action Level
EDE	effective dose equivalent
EFC	experimental facilities cooler
EIS	Environmental Impact Statement
EPA	U.S. Environmental Protection Agency
ERPG	Emergency Response Planning Guidelines
ES&H	environment, safety, and health
<i>et seq.</i>	<i>et sequens</i> – Latin, meaning “and the following”
FEIS	Final Environmental Impact Statement
FHA	fuel-handling accident
FR	<i>Federal Register</i>
GE	General Emergency
HEPA	high-efficiency particulate air
HEU	highly enriched uranium
HFBR	High Flux Beam Reactor
HTO	tritiated water
HVAC	heating, ventilation, and air conditioning
HWMF	Hazardous Waste Management Facility
IAG	Interagency Agreement
IRM	interim remedial measure

LCF	latent cancer fatality
LIE	Long Island Expressway
LILCO	Long Island Lighting Company
LIPA	Long Island Power Authority
LIRR	Long Island Railroad
LLMW	low level mixed waste
LLW	low level radioactive waste
LOCA	loss of coolant accident
LOOP	loss of offsite power
LWM	Light Water Make-up
MACCS	Melcor Accident Consequence Code System
MEI	maximally exposed individual
MOA	Memorandum of Agreement
NAAQS	National Ambient Air Quality Standards
NAGPRA	<i>Native American Graves Protection and Repatriation Act</i>
NEPA	<i>National Environmental Policy Act</i> of 1969
NESHAP	National Emission Standards for Hazardous Air Pollutants
NHPA	<i>National Historic Preservation Act</i>
NOI	Notice of Intent
NPL	National Priorities List
NRC	U.S. Nuclear Regulatory Commission
NRHP	National Register of Historic Places
NSLS	National Synchrotron Light Source
NWI	National Wetland Inventory
NYCRR	New York Codes, Rules and Regulations
NYPA	New York Power Authority
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOT	New York State Department of Transportation
ORR	Operational Readiness Review
OSHA	Occupational Safety and Health Administration
OU	Operable Unit
PAG	Protective Action Guidelines
PEIS	Programmatic Environmental Impact Statement
PEL	Permissible Exposure Limit
PRA	Probabilistic Risk Assessment
PSD	Prevention of Significant Deterioration
PWS	Poison Water System
RCRA	<i>Resource Conservation and Recovery Act</i>
RHIC	Relativistic Heavy Ion Collider
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
ROI	Region of Influence
RQ	reportable quantity
S&M	surveillance and maintenance
SAE	Site Area Emergency
SANS	Small Angle Neutron Scattering
SAR	Safety Analysis Report
SARA	<i>Superfund Amendments and Reauthorization Act</i>
SCDHS	Suffolk County Department of Health Services
SDWA	<i>Safe Drinking Water Act</i>
SHPO	(New York) State Historic Preservation Office
SNF	spent nuclear fuel
SPAM	Secondary Poison Water Addition Method
SPDES	State Pollutant Discharge Elimination System
SRS	Savannah River Site

STP	sewage treatment plant
SWT	severe wind-tornado
TAL	Target Analyte List
TEDE	total effective dose equivalent
TPQ	threshold planning quantities
TQ	threshold quantity
TRP	Tritium Remediation Project
TRU	transuranic waste
TSCA	<i>Toxic Substances Control Act</i>
TSR	Technical Safety Requirements
USC	United States Code
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
VOC	volatile organic compound
WM	waste management
WMF	Waste Management Facility

METRIC CONVERSION CHART

To Convert Into Metric			To Convert Out of Metric		
If You Know	Multiply By	To Get	If You Know	Multiply By	To Get
Length					
Inches (in)	2.54	centimeters (cm)	centimeters (cm)	0.3937	inches (in)
Feet (ft)	30.48	centimeters (cm)	centimeters (cm)	0.0328	feet (ft)
Feet (ft)	0.3048	meters (m)	meters (m)	3.281	feet (ft)
Yards (yd)	0.9144	meters (m)	meters (m)	1.0936	yards (yd)
Miles (mi)	1.60934	kilometers (km)	kilometers (km)	0.6214	miles (mi)
Area					
Sq. inches (in ²)	6.4516	sq. centimeters(cm ²)	sq. centimeters(cm ²)	0.155	sq. inches (in ²)
Sq. feet (ft ²)	0.092903	sq. meters (m ²)	sq. meters (m ²)	10.7639	sq. feet (ft ²)
Sq. yards (yd ²)	0.8361	sq. meters (m ²)	sq. meters (m ²)	1.196	sq. yards (yd ²)
Acres	0.40469	hectares (ha)	hectares (ha)	2.471	acres
Sq. miles (mi ²)	2.58999	sq. kilometers (km ²)	sq. kilometers (km ²)	0.3861	sq. miles (mi ²)
Volume					
fluid ounces (fl oz)	29.574	milliliters (ml)	milliliters (ml)	0.0338	fluid ounces (fl oz)
gallons (gal)	3.7854	liters (l)	liters (l)	0.26417	gallons (gal)
cubic feet (ft ³)	0.028317	cubic meters (m ³)	cubic meters (m ³)	35.315	cubic feet (ft ³)
cubic yards (yd ³)	0.76455	cubic meters (m ³)	cubic meters (m ³)	1.308	cubic yards (yd ³)
Weight					
ounces (oz)	28.3495	grams (g)	grams (g)	0.03527	ounces (oz)
pounds (lb)	0.45360	kilograms (kg)	kilograms (kg)	2.2046	pounds (lb)
short tons	0.90718	metric tons	metric tons	1.1023	short tons
Force					
dynes (dyn)	.00001	Newtons (N)	Newtons (N)	100,000	dynes (dyn)
Temperature					
Fahrenheit (°F)	Subtract 32 then Multiply by 5/9ths	Celsius (°C)	Celsius (°C)	Multiply by 9/5ths, then add 32	Fahrenheit (°F)

METRIC PREFIXES

Prefix	Symbol	Multiplication Factor
exa-	E	1 000 000 000 000 000 000 = 10 ¹⁸
peta-	P	1 000 000 000 000 000 = 10 ¹⁵
tera-	T	1 000 000 000 000 = 10 ¹²
giga-	G	1 000 000 000 = 10 ⁹
mega-	M	1 000 000 = 10 ⁶
kilo-	k	1 000 = 10 ³
hecto-	h	100 = 10 ²
deka-	da	10 = 10 ¹
deci-	d	0.1 = 10 ⁻¹
centi-	c	0.01 = 10 ⁻²
milli-	m	0.001 = 10 ⁻³
micro-	μ	0.000 001 = 10 ⁻⁶
nano-	n	0.000 000 001 = 10 ⁻⁹
pico-	p	0.000 000 000 001 = 10 ⁻¹²
femto-	f	0.000 000 000 000 001 = 10 ⁻¹⁵
atto-	a	0.000 000 000 000 000 001 = 10 ⁻¹⁸

CHEMICALS AND UNITS OF MEASURE

Ar ⁴¹	Argon-41
Be ⁷	Beryllium-7
Bi ²¹¹	Bismuth-211
Br ⁸²	Bromine-82
°C	degrees Celsius
C ¹⁴	Carbon-14
cfm	cubic feet per minute
Ci	Curie
Ci/cm ³	curies per cubic centimeter
cis-1,2-DCE	cis-1,2-dichloroethene
cm	centimeter(s)
CO	carbon monoxide
CO ₂	carbon dioxide
Cs	cesium
Cs ¹³⁷	Cesium-137
Cu	copper
D	deuterium
D ₂ O	deuterium oxide, also known as “heavy water”
dB	decibel
dBA	day-night average sound level
DCA	1,1-dichloroethane
DCE	1,1-dichloroethene
DTPA	diethylenetriamine pentaacetic acid
EDB	ethylene dibromide
°F	degrees Fahrenheit
Fe	iron
fl oz	fluid ounce(s)
fl oz/d	fluid ounces per day
ft	foot or feet
ft ²	square feet
ft ³	cubic feet

ft/d	feet per day
g	gravitational acceleration
gal	gallon(s)
gpm	gallons per minute
GPD	gallons per day
GWd	gigawatt-days
H ₂	hydrogen
H ₂ O	water
H ³	tritium
ha	hectare(s)
hr	hour(s)
HTO	tritiated water
I ¹³¹	Iodine-131
I ¹³³	Iodine-133
in	inch(es)
kg	kilogram(s)
kg/s	kilograms per second
kg/yr	kilograms per year
km	kilometer(s)
kmh	kilometers per hour
km/s	kilometers per second
kV	kilovolt(s)
l	liter(s)
lb	pound(s)
lpd	liters per day
lpm	liters per minute
m	meter(s)
m ²	square meters
m ³	cubic meters
m/d	meters per day
m ³ /yr	cubic meters per year
mCi	millicurie
mg	milligram(s)

MGD	million gallons per day
mi	mile(s)
mi/s	miles per second
ml/d	milliliters per day
MLD	million liters per day
mph	miles per hour
mrem	millirem
mrem/yr	millirem per year
MW	megawatt(s)
MWe	megawatts, electric
MWh/yr	megawatt-hours per year
nCi	nanocurie(s)
nCi/g	nanocuries per gram
NO ₂	nitrogen dioxide
NO _x	oxides of nitrogen
O ₃	ozone
O ¹⁵	Oxygen-15
Pb	lead
PCA	1,1,2,2-tetrachloroethane
PCB	polychlorinated biphenyl
PCE	tetrachloroethene
pCi	picocurie(s)
pCi/l	picocuries per liter
pCi/m ³	picocuries per cubic meter
PM ₁₀	particulate matter less than or equal to 10 microns
ppm	parts per million
ppb	parts per billion
R	Roentgen(s)
R/hr	Roentgens per hour
rem	Roentgen equivalent man
s	second(s)
Sn ¹¹⁷	tin-117
SO ₂	sulfur dioxide

Sr^{90}	strontium-90
TCA	1,1,1-trichloroethane
TCE	trichloroethene
$\text{Tc}^{99\text{m}}$	technetium-99 metastable
ton	short ton(s)
U^{235}	uranium-235
yr	year(s)
μCi	microcurie(s)
$\mu\text{Ci}/\text{l}$	microcuries per liter
$\mu\text{Ci}/\text{cm}^3$	microcuries per cubic centimeter
μg	microgram(s)